

May 10, 2007

RINKER MATERIALS
CONCRETE PIPE DIV
DANIEL THOMSON
PO BOX 0304
HALES CORNERS WI 53130-0304

Re: Description: STORMWATER TREATMENT DEVICE
Manufacturer: RINKER MATERIALS
Product Name: STORMCEPTOR
Model Number(s): STC-2400
Product File No: 20060211

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters Comm 82 through 84, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. **This approval is valid until the end of May 2012.**

This approval is contingent upon compliance with the following stipulation(s):

- Prior to installation of this product, plans and specifications must be submitted to the department or to an approved agent municipality for review and approval in accordance with s. Comm 82.20 (1) of the Wis. Admin. Code. Written approval for the plans and specifications shall be obtained prior to installation of the product.
- This product is approved for the following uses:
 - Stormwater and clearwater subsurface detention system,
 - Stormwater and clearwater subsurface infiltration system, or
 - Stormwater and clearwater subsurface detention/infiltration system
- The review undertaken by Commerce staff does not include review and/or approval of this submittal as meeting DNR specifications for ch. NR 151.
- Installation-- Installation of this product must be in accordance with the manufacturer's printed installation instructions. A copy of the manufacturer's installation instructions must be given to the property owner, installer and submitted along with other information required by the governing agency for the installation.
- Labeling-- This product must be permanently labeled identifying the manufacturer and model number, as specified below:
 - . The Stormceptor name and Cretex logo are cast into the cast-iron manhole frame and lid.
 - . The component piece of the manhole shall include stenciling in blue paint of the Stormceptor name (and their Water Flow logo).
 - . In addition, a metal ID tag shall be affixed in the interior weir so listing the Stormceptor name and unique serial/model number. (The model number corresponds to the maximum capacity in gallons.)
- Water tightness-- All concrete joints shall be oil resistant and watertight meeting ASTM C-443 standard. Pipe sealants, lubricated gaskets, and boots, meeting testing as per ASTM 923-7.1 and 7.2.3, are as recommended by the manufacturer, see: www.stormceptor.com.

- Inspection and maintenance-- Inspection(s) shall be performed at intervals specified by the manufacturer or as described in the individual approved plumbing plan. Maintenance shall be performed initially annually and may be adjusted once the sediment depth and oil accumulation reaches the depth as listed in Table 3, Sediment Depths Indicating Required Maintenance, Stormceptor System Owner's Manual (undated). If the individual maintenance plan is more stringent, it shall take precedence.
- Bypass-- In order to prevent scour and resuspension, all installations shall be maintained in such as manner that an overflow bypass is operational for infrequent high flows in excess of design capacity.
- Description-- The Stormceptor oil and grit separator is a vertically-oriented, 2-compartment, concrete cylinder with a fiber reinforced plastic chamber separator with an overflow/bypass.
- Limitations-- This approval is limited to the Stormceptor grit and oil separators contained in pre-cast concrete risers. As of the date listed above, no Stormceptor models contained in cylinders made of fiberglass (or other materials) have been submitted for review and approval.
- This product is expected to produce an effluent that has less than 60 mg/L TSS (total suspended solids) for subsurface infiltration/irrigation with stormwater as the source when the influent bulk TSS concentration is 80 mg/L or less and the maintenance meets the conditions listed in Table SC-1.

Based on full-scale testing (a), this model is expected to produce approximately 75% TSS removal under the conditions specified in Table SC-1.

Table SC-1
Stormwater and Clearwater Treatment (a)
At Maximum Flow for Stormceptor SC-2400 and 3600

INFLUENT			EFFLUENT	
Maximum Flow in cu. ft./sec.	Suspended Solid Concentration	Average Particle Size of Influent	Suspended Solid Concentration	Maintenance Interval Months
1.14	295 mg/L	97 um (b)	75.25 mg/L	12 (c)

(a) Based on full-scale testing on model SC-900 for NJCAT and using scaling formula based on Expert System Ver. 2.0. This approval does not take into consideration any pre-treatment devices installed upstream or downstream of this product in an approved stormwater detention, conveyance or subsurface Infiltration plumbing system.

(b) Where the average specific gravity is 2.65 and where 45% particles are < 25 um.

(c) See Table 3, Sediment Depths Indicating Required Maintenance, Stormceptor System Owner's Manual (undated).

- This product is expected to produce an effluent having values for Free Oil as listed in Table SC-2, when the influent flow and loads meet the conditions as listed.

Table SC-2
Stormwater and Clearwater Treatment (a)
for Free Floatable Oil for the Stormceptor SC-2400 and 3600

INFLUENT			EFFLUENT
Maximum Flow in Cu. Ft./sec	Specific Gravity of Material	Concentration in mg/L	Concentration in mg/L
1.14	0.916	36 mg/L	30 mg/L

(a) Based on testing conducted on the STC-900 with olive oil as the free floatable oil using (range of 60-95% removal rate) geometric mean of 82% removal rate to attain concentration levels as listed in Table Comm 82.70-1.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

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